



COMMONWEALTH of VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY  
A Nationally Accredited Laboratory

700 NORTH 5TH STREET  
RICHMOND, VIRGINIA 23219  
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II  
SERIAL NUMBER: 010529  
CERTIFICATION DATE: February 19, 2014  
DATE RECERTIFICATION DUE: August 18, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

0.020 ± 0.004 g/210 L      0.150 ± 0.007 g/210 L  
0.080 ± 0.004 g/210 L      0.250 ± 0.007 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

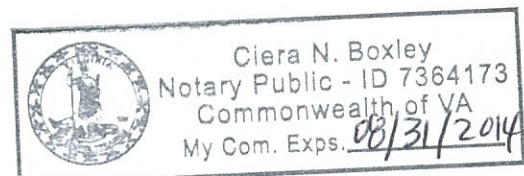
Timmy L. Neece, Jr.  
Forensic Scientist

CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 5th day of  
March, 2014 by Timmy L. Neece, Jr.

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



DBH  
TL

**Department of Forensic Science**  
**Breath Alcohol Section**  
**Instrument Maintenance History**  
**1/1/1990 To 2/20/2014**

**Instrument Serial Number: 010529**

**As of 20-Feb-14**

<b>Maintenance</b>	<b>Certification</b>	<b>Technician</b>	
<b>Date</b>	<b>Date</b>	<b>Initials</b>	<b>Remarks</b>
19-Feb-14	19-Feb-14	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
04-Sep-13	04-Sep-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
19-Mar-13	19-Mar-13	DBH (21250)	CERTIFIED.
27-Sep-12	27-Sep-12	DBH (21250)	CERTIFIED.
26-Sep-12	26-Sep-12	HMS (18910)	REPLACED AND TESTED FUEL CELL MODULE, CALIBRATED AND CERTIFIED.
05-Apr-12	05-Apr-12	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
18-Oct-11	18-Oct-11	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
25-Aug-11	26-Apr-11	HMS (18910)	REPLACED DRY GAS STANDARD.
26-Apr-11	26-Apr-11	RJP (22428)	CERTIFIED.
17-Nov-10	17-Nov-10	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED.
27-Jul-10	02-Jun-10	RJP (22428)	REPLACED DRY GAS STANDARD.
02-Jun-10	02-Jun-10	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED
14-Dec-09	14-Dec-09	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED
24-Aug-09	24-Aug-09	RJP (22428)	CERTIFIED. REPLACED DRY GAS STANDARD.
10-Jul-09	10-Jul-09	RJP (22428)	CERTIFIED.
18-May-09	20-Mar-09	RJP (22428)	REPLACED DRY GAS STANDARD.
20-Mar-09	20-Mar-09	RJP (22428)	FIRMWARE/SOFTWARE UPGRADE. CERTIFIED.
17-Oct-08	17-Oct-08	RJP (22428)	CERTIFIED.
01-Oct-08	01-Oct-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

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# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010529 Worksheet Start Date 2/19/2014  
Location Farmville PD  
Address 116 N Main St Farmville VA 23901  
DFS Technician Donald Hall License No. 21250

☐ Laboratory ☒ On-Site

Site Specification: No detrimental environmental conditions exist. ☒

Instrument Barometer (mm HG) 748 Reference Barometer (mm HG) 751  
Reference Barometer(RB)Serial # 009109 RB Calibration Due 8/1/2014

## Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.299
0.300	0.295	0.286	0.303	Sample 2	0.300
Precision		sample min	sample max	Sample 3	0.299
0.001		0.299	0.300		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.099
0.100	0.098	0.095	0.101	Sample 2	0.099
Precision		sample min	sample max	Sample 3	0.099
0		0.099	0.099		

Dry gas standard Lot No. (with tank no.) AG332301-17

☒ Replaced dry gas standard (+O-ring)

☐ Installed at Location

☐ Removed to DFS-Central

Supplies  
Mouthpieces  
Certificates of Analysis  
Operator Worksheet  
Other:

100  
100  
100

Notes:

Instrument Serial Number

010529

Certification Date

2/19/2014

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.245
0.250	0.246	0.238	0.253	<b>Sample 2</b>	0.245
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.244
0.001		0.244	0.245		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.148
0.150	0.147	0.142	0.151	<b>Sample 2</b>	0.148
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.148
0		0.148	0.148		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.079
0.080	0.079	0.076	0.082	<b>Sample 2</b>	0.079
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.079
0		0.079	0.079		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.019
0.020	0.020	0.017	0.023	<b>Sample 2</b>	0.019
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.019
0		0.019	0.019		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

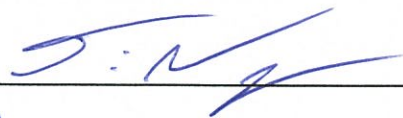
DFS Technician



Date

2/20/14

Issuing Analyst



Date

2/21/14

**Intox EC/IR-II: Certification**

DBH  
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*Department of Forensic Science*

Serial Number: 010529      Test Number: 2864  
Test Date: 02/19/2014      Test Time: 09:51 EST

Technician Initials: DBH

Dry Gas Target: 0.246

Lot Number: 2961225012-09      Exp Date: 11/01/2014

Tank Pressure: 448 psi      Barometric Pressure: 747 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:51
BLK	0.000	09:52
CHK	0.245	09:53
BLK	0.000	09:55
CHK	0.245	09:55
BLK	0.000	09:57
CHK	0.244	09:58
BLK	0.000	09:59

**Success**

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

DBH  
TLW

**Intox EC/1R-II: Certification**

*Department of Forensic Science*

Serial Number: 010529      Test Number: 2865  
Test Date: 02/19/2014      Test Time: 10:02 EST

Technician Initials: DBH

Dry Gas Target: 0.147

Lot Number: 2951215012-03      Exp Date: 11/01/2014

Tank Pressure: 85 psi      Barometric Pressure: 747 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:02
BLK	0.000	10:03
CHK	0.148	10:04
BLK	0.000	10:05
CHK	0.148	10:06
BLK	0.000	10:07
CHK	0.148	10:08
BLK	0.000	10:10

**Success**

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

DBH  
TLN

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010529      Test Number: 2866  
Test Date: 02/19/2014      Test Time: 10:12 EST

Technician Initials: DBH

Dry Gas Target: 0.079

Lot Number: 0771308012-01      Exp Date: 05/01/2015

Tank Pressure: 536 psi      Barometric Pressure: 747 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:13
BLK	0.000	10:13
CHK	0.079	10:14
BLK	0.000	10:15
CHK	0.079	10:16
BLK	0.000	10:17
CHK	0.079	10:18
BLK	0.000	10:19

**Success**

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

DBH  
TLN

# **Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010529      Test Number: 2867  
Test Date: 02/19/2014      Test Time: 10:22 EST

Technician Initials: DBH

Dry Gas Target: 0.020

Lot Number: 0771302011-02      Exp Date: 05/01/2015

Tank Pressure: 526 psi      Barometric Pressure: 747 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:22
BLK	0.000	10:23
CHK	0.019	10:24
BLK	0.000	10:25
CHK	0.019	10:26
BLK	0.000	10:27
CHK	0.019	10:28
BLK	0.000	10:29

**Success**

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success



**Intox EC/1R-11: Accuracy Check**

DBH  
TLW

*Department of Forensic Science*

Serial Number: 010529      Test Number: 2868

Test Date: 02/19/2014      Test Time: 10:31 EST

Dry Gas Target: 0.295

Lot Number: AG322702-06      Exp Date: 08/15/2015

Tank Pressure: 502 psi      Barometric Pressure: 747 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	10:32
CHK	0.299	10:33
BLK	0.000	10:35
CHK	0.300	10:36
BLK	0.000	10:37
CHK	0.299	10:38

Test Status: Success

Calibration CRC: 41CD7F81

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TLN

# Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010529      Test Number: 2869

Test Date: 02/19/2014      Test Time: 10:41 EST

Dry Gas Target: 0.098

Lot Number: AG332301-17      Exp Date: 11/19/2015

Tank Pressure: 1115 psi      Barometric Pressure: 747 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	10:42
CHK	0.099	10:43
BLK	0.000	10:44
CHK	0.099	10:45
BLK	0.000	10:46
CHK	0.099	10:47

Test Status: Success

Calibration CRC: 41CD7F81

DBH  
TLN



COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED	NAME OF COURT
<b>INSTRUMENT, TEST,</b>	<b>DFS</b>

BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY		AGENCY
<b>HALL, DONALD, B</b>		<b>DFS Central Lab</b>
DFS LICENSE NUMBER	LICENSE EXPIRES	DATE TEST CONDUCTED
<b>21250</b>	<b>10/01/2014</b>	<b>02/19/2014</b>
TEST EQUIPMENT NUMBER		
<b>010529</b>		

RESULTS: TIME SAMPLE TAKEN 10:56 EST

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20 \_\_\_\_\_.

BREATH TEST OPERATOR
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☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_ SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_ OPERATOR'S SIGNATURE